



IFW

PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/605,014	
	Filing Date	09/01/2003	
	First Named Inventor	Chuan-Pei Yu	
	Art Unit	3301	
	Examiner Name		
Total Number of Pages in This Submission	37	Attorney Docket Number	ADTP0098USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	<i>Winston Hsu</i>
Date	JUL 23 2004

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name			
Signature		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 0.00

**Complete if Known**

Application Number	10/605,014
Filing Date	09/01/2003
First Named Inventor	Chuan-Pei Yu
Examiner Name	
Art Unit	
Attorney Docket No.	ADTP0098USA

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit Account Number  
Deposit Account Name

50-3105

North America Intellectual Property Corp.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ ) 0.00

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims		-20** =		X		=	
Independent Claims		-3** =		X		=	
Multiple Dependent							

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$ ) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0.00

**SUBMITTED BY**

(Complete if applicable)

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature	<i>Winston Hsu</i>	Date	JUL 23 2004		

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

**SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitution for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/605,014
				Filing Date	09/01/2003
				First Named Inventor	Chuan-Pei Yu
				Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	ADTP0098USA

[illegible][illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5 Applicant(s): Chuan-Pei Yu, Han-Chou Liu, Chin-Kun  
Hsieh, Chien-Hung Kuo

Filing Date: 09/01/2003 Art Unit:

App. No.: 10/605,014 Docket No.: ADTP0098USA

10

Title: LIQUID CRYSTAL DISPLAY

To: Commissioner for Patents  
P.O. BOX 1450

15

Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37 CFR  
§1.56.

20 Dear Sir:

This is an Information Disclosure Statement in  
accordance with the duty to disclose information  
material to patentability under 37 CFR §1.56. The  
25 applicant wishes to make of record the documents listed  
on the accompanying form 1449A/PTO. It is respectfully  
requested that the examiner initials the cited  
reference on the form and that it be made of record  
in the application and that a copy of the initialed  
30 form be sent to the applicant with the next communication  
from the examiner.

Since the IDS is filed before the mailing date of a first Office action on the merits, a petition to request consideration of the information disclosure statement is hereby requested according to 37 CFR §1.97(b). To  
5 comply with 37 C.F.R. §1.97(e), which states that each item of information contained in the information disclosure statement was first cited in any communications from a foreign application not more than three months prior to the filing of the information  
10 disclosure statement, each item of information contained in the information disclosure statement was first cited in the communication from the Taiwan Intellectual Property Office on May 25, 2004 for a counterpart foreign application. The applicant  
15 sincerely hopes that the examiner can consider the items contained in this IDS.

According to the requirement set forth in 37 CFR §1.98 and MPEP 609 (Rev.1, Feb. 2000), the applicant  
20 is submitting a copy of the reference cited by the Taiwan Intellectual Property Office, which including a Japanese patent application JP 2002244133 (published Aug. 28, 2002) and a Taiwanese patent application TW 552439 (published Sep. 11, 2003), and a concise  
25 explanation of the relevance to this application hereinafter.

Regarding JP 2002244133, Fig. 1 illustrates a backlight module for providing backlight illumination  
30 to a first LCD panel 1 and a second LCD panel 5. The backlight module includes a first light source 2, a first light guide plate 3, a resin frame 4, a second

light source 6, and a second light guide plate 7. JP 2002244133 never teaches to use lamp reflectors surrounding the light sources to improve the illumination efficiency of the backlight module, as  
5 is disclosed in the amended claim 1 of the present application. In addition, JP 2002244133 never teaches to interlay the light sources between the first LCD display and the second LCD panel, as is disclosed in the amended claim 12 of the present application.  
10 Therefore, the claimed invention of the present application is believed different from the prior art as shown in JP 2002244133.

Regarding TW 552439, Fig. 1 illustrates a backlight  
15 module for providing backlight illumination to two LCD panels 2. The backlight module includes a light source 10, and a light guide plate 1 positioned between the two LCD panels 2. TW 552439 only teaches to put the light source(s) at one side of the light guide plate  
20 1. TW 552439 never teaches the concept of introducing lights from both sides of the light guide plate, as is disclosed in the amended claim 1 of the present application. TW 552439 does not teach to use lamp reflectors surrounding the light sources to improve  
25 the illumination efficiency of the backlight module, as is disclosed in the amended claim 1 of the present application. In addition, TW 552439 never teaches to interlay the light sources between the first LCD display and the second LCD panel, as is disclosed in the amended  
30 claim 12 of the present application. Therefore, the claimed invention of the present application is believed different from the prior art as shown in TW

552439.

For convenience, the amended claims 1 and 12 of the present application are listed below:

5

Claim 1: A liquid crystal display comprising a first panel positioned on a front surface of a backlight unit, and a second panel positioned on a back surface of the backlight unit; wherein the backlight unit provides  
10 light to both of the first panel and the second panel to enable either of the panels to display images, the backlight unit comprising:

a first light guide plate positioned on a back surface of the first panel;

15 a second light guide plate positioned on a back surface of the second panel;

at least a light source and a **first lamp reflector** surrounding the first light source positioned at a first side of the backlight unit, and at least a **second light**  
20 **source and a second lamp reflector** surrounding the second light source positioned at a second side of the backlight unit; and

a reflector positioned between the first side and the second side to reflect light emitted from the first  
25 light source and the second light source to the first panel and the second panel.

Claim 12: A liquid crystal display comprising a first panel positioned on a front surface of a backlight unit, and a second panel positioned on a back surface of the  
30 backlight unit; wherein the backlight unit provides light to both of the first panel and the second panel

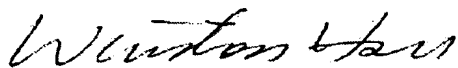
to enable either of the panels to display images, the backlight unit comprising:

a first optical film and a first diffusion sheet positioned on a back surface of the first panel;

5 a second optical film and a second diffusion sheet positioned on a back surface of the second panel; and

at least a light source positioned between the first diffusion sheet and the second diffusion sheet, and light emitted from the light source passing through  
10 the first diffusion sheet and the second diffusion sheet to be uniformly transmitted to the first panel and the second panel.

15 Respectfully Submitted,



Date: JUL 23 2004

Winston Hsu, Patent Agent No.41,526

20 P.O. BOX 506

Merrifield, VA 22116

U.S.A.

e-mail: winstonhsu@naipo.com.tw

(Please contact me by e-mail if you need a telephone communication  
25 and I will return your call promptly.)